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1 Dynamic RWA algorithms under shared-risk-link-group constraints
Haibo Wen; Lemin Li; Sheng Wang;

Communications, Circuits and Systems and West Sino Expositions, IEEE 2002 International Conference on , Volume: 1 , 29 June-1 July 2002
 Pages:871 - 875 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(418 KB\)\]](#) IEEE CNF
2 Trap avoidance and protection schemes in networks with shared risk link groups
Dahai Xu; Yizhi Xiong; Chunming Qiao; Guangzhi Li;

Lightwave Technology, Journal of , Volume: 21 , Issue: 11 , Nov. 2003
 Pages:2683 - 2693

[\[Abstract\]](#) [\[PDF Full-Text \(444 KB\)\]](#) IEEE JNL
3 Fast flow analysis to compute fuzzy estimates of risk levels
Merlo, E.; Antoniol, G.; Brunelle, P.-L.;

Software Maintenance and Reengineering, 2003. Proceedings. Seventh European Conference on , 26-28 March 2003
 Pages:351 - 360

[\[Abstract\]](#) [\[PDF Full-Text \(519 KB\)\]](#) IEEE CNF
4 Discrete approximations to continuous shortest-path: application to minimum-risk path planning for groups of UAVs
Kim, J.; Hespanha, J.P.;

Decision and Control, 2003. Proceedings. 42nd IEEE Conference on , Volume: 2 , 9-12 Dec. 2003
 Pages:1734 - 1740 Vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(572 KB\)\]](#) IEEE CNF

5 Towards real-time global motion planning in a dynamic environment using the NLVO concept

Large, F.; Sekhavat, S.; Shiller, Z.; Laugier, C.;
Intelligent Robots and System, 2002. IEEE/RSJ International Conference on , Volume: 1 , 30 Sept.-5 Oct. 2002
Pages:607 - 612 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(520 KB\)\]](#) IEEE CNF

6 Real time penetration of multiple moving threats

Meng, A.C.-C.;
Aerospace and Electronics Conference, 1989. NAECON 1989., Proceedings of the IEEE 1989 National , 22-26 May 1989
Pages:933 - 939 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(376 KB\)\]](#) IEEE CNF

7 The weighted Voronoi diagram and its applications in least-risk motion planning

Meng, A.C.-C.; Brooks, G.S.; Vermeer, P.J.;
Computers and Communications, 1989. Conference Proceedings., Eighth Annual International Phoenix Conference on , 22-24 March 1989
Pages:562 - 566

[\[Abstract\]](#) [\[PDF Full-Text \(264 KB\)\]](#) IEEE CNF

8 Semiconcurrent error detection in data paths

Antola, A.; Ferrandi, F.; Piuri, V.; Sami, M.;
Computers, IEEE Transactions on , Volume: 50 , Issue: 5 , May 2001
Pages:449 - 465

[\[Abstract\]](#) [\[PDF Full-Text \(496 KB\)\]](#) IEEE JNL

9 Using measurements to derive the worst-case execution time

Lindgren, M.; Hansson, H.; Thane, H.;
Real-Time Computing Systems and Applications, 2000. Proceedings. Seventh International Conference on , 12-14 Dec. 2000
Pages:15 - 22

[\[Abstract\]](#) [\[PDF Full-Text \(708 KB\)\]](#) IEEE CNF

10 A low-redundancy approach to semi-concurrent error detection in data paths

Antola, A.; Piuri, V.; Sami, M.;
Design, Automation and Test in Europe, 1998., Proceedings , 23-26 Feb. 1998
Pages:266 - 272

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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [Fast detection of communication patterns in distributed executions](#)**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Computing curricula 2001](#)September 2001 **Journal on Educational Resources in Computing (JERIC)**Full text available: [pdf\(613.63 KB\)](#)[html\(2.78 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 [POESIA: An ontological workflow approach for composing Web services in agriculture](#)**

Renato Fileto, Ling Liu, Calton Pu, Eduardo Delgado Assad, Claudia Bauzer Medeiros

November 2003 **The VLDB Journal — The International Journal on Very Large Data****Bases**, Volume 12 Issue 4Full text available: [pdf\(726.49 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes the POESIA approach to systematic composition of Web services. This pragmatic approach is strongly centered in the use of domain-specific multidimensional ontologies. Inspired by applications needs and founded on ontologies, workflows, and activity models, POESIA provides well-defined operations (aggregation, specialization, and instantiation) to support the composition of Web services. POESIA complements current proposals for Web services definition and composition by provi ...

Keywords: Composition of Web services, Data integration, Ontologies, Semantic Web, Semantics of data and processes

4 Game theory: On the expected payment of mechanisms for task allocation

Artur Czumaj, Amir Ronen

July 2004 **Proceedings of the twenty-third annual ACM symposium on Principles of distributed computing**Full text available:  [pdf\(225.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study a generic task allocation problem called shortest paths: Let G be a directed graph in which the edges are owned by self interested agents. Each edge has an associated cost that is privately known to its owner. Let s and t be two distinguished nodes in G . Given a distribution on the edge costs, the goal is to design a mechanism (protocol) which acquires a cheap s - t path. We first prove that the class of generalized VCG mechanisms has certain monotonicity ...

Keywords: expected payment, frugality, mechanism design, task allocation

5 A graph-based system for network-vulnerability analysis


Cynthia Phillips, Laura Panton Swiler

January 1998 **Proceedings of the 1998 workshop on New security paradigms**Full text available:  [pdf\(749.39 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: attack graph, computer security, network vulnerability

6 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1Full text available:  [pdf\(8.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed—that span a wide range of applications, including: primality testing (a classical problem in number theory), interactive probabilistic proofs ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

7 Determining component reliability using a testing index

John Morris, Peng Lam, Gareth Lee, Kris Parker, Gary A Bundell

January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4**, Volume 24 Issue 1Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Component-Based Software Engineering has the potential to provide reliable systems based on tested components quickly and economically, but these systems will only be as reliable as the components from which they are constructed. We propose a 6-point scale which can

be used to rate the degree to which a component has been tested. This scale can be used by developers to assess the risk of using a third party component. Since a variety of test strategies are used, it is necessary to correlate test ...

Keywords: component testing, component-based, software engineering, software reliability

8 Single-packet IP traceback

Alex C. Snoeren, Craig Partridge, Luis A. Sanchez, Christine E. Jones, Fabrice Tchakountio, Beverly Schwartz, Stephen T. Kent, W. Timothy Strayer
December 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 6

Full text available:  [pdf\(528.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, widespread packet forwarding techniques such as NAT and encapsulation may obscure the packet's true source. Techniques have been developed to determine the source of large packet flows, but, to date, no system has been presented to track individual packets in an efficient, scalable fashion. We present a hash-based techn ...

Keywords: IP traceback, computer network management, computer network security, denial of service (DoS), network fault diagnosis, wide-area networks (WANs)

9 Hash-based IP traceback

Alex C. Snoeren
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 31 Issue 4

Full text available:  [pdf\(179.03 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Full text available:  [pdf\(2.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

11 Technical reports

SIGACT News Staff
April 1981 **ACM SIGACT News**, Volume 13 Issue 2

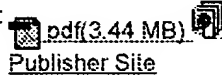
Full text available:  [pdf\(2.64 MB\)](#) Additional Information: [full citation](#)

12 Special issue on word sense disambiguation: Introduction to the special issue on word sense disambiguation: the state of the art

Nancy Ide, Jean Véronis

March 1998 **Computational Linguistics**, Volume 24 Issue 1

Full text available:



Additional Information: [full citation](#), [references](#), [citations](#)

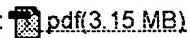
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13 Session summaries from the 17th symposium on operating systems principle (SOSP'99)

Jay Lepreau, Eric Eide

April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

Full text available:



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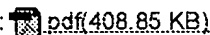
14 Probing the black box: Performance debugging for distributed systems of black boxes

Marcos K. Aguilera, Jeffrey C. Mogul, Janet L. Wiener, Patrick Reynolds, Athicha

Muthitacharoen

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many interesting large-scale systems are distributed systems of multiple communicating components. Such systems can be very hard to debug, especially when they exhibit poor performance. The problem becomes much harder when systems are composed of "black-box" components: software from many different (perhaps competing) vendors, usually without source code available. Typical solutions-provider employees are not always skilled or experienced enough to debug these systems efficiently. Our goal is to ...

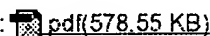
Keywords: black box systems, distributed systems, performance analysis, performance debugging

15 Reconfiguration of spare capacity for MPLS-based recovery in the internet backbone networks

Pin-Han Ho, Hussein T. Mouftah

February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces a novel approach, called Short Leap Shared Protection with spare capacity Reallocation (SLSP-R), to deal with dynamic reconfiguration of spare capacity for MPLS-based recovery in the Internet backbone networks. SLSP-R is based on the SLSP framework and is designed to quantify the impact of computation complexity on network performance. The basic idea for SLSP-R is to subdivide a lengthy optimization process into several subtasks in order to trade the optimization quality with ...

Keywords: MPLS, network planning, ring-based architecture, spare capacity, survivability

16 Integrated hardware-software co-synthesis for design of embedded systems under

power and latency constraints

A. Doboli

March 2001 **Proceedings of the conference on Design, automation and test in Europe**Full text available:  [pdf\(217.60 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**17** Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries


Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2Full text available:  [pdf\(316.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy**18** Models and languages for parallel computation

David B. Skillicorn, Domenico Talia

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2Full text available:  [pdf\(298.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We survey parallel programming models and languages using six criteria to assess their suitability for realistic portable parallel programming. We argue that an ideal model should be easy to program, should have a software development methodology, should be architecture-independent, should be easy to understand, should guarantee performance, and should provide accurate information about the cost of programs. These criteria reflect our belief that developments in parallelism must be driven b ...

Keywords: general-purpose parallel computation, logic programming languages, object-oriented languages, parallel programming languages, parallel programming models, software development methods, taxonomy**19** Guidance for the use of the Ada programming language in high integrity systems

B. A. Wichmann


July 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 4Full text available:  [pdf\(2.93 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper is the current result of a study by the ISO HRG Rapporteur group which is being circulated for comment. Many people have contributed to this, but those who have either attended two recent meetings of group or have made substantial e-mail comments are: Praful V Bhansali (Boeing, USA), Alan Burns (University of York, UK), Bernard Carre' (Praxis Critical Systems, UK), Dan Craigen (ORA, Canada), Nick Johnson MoD, UK), Stephen Michell (Canada), Gilles Motet (DGEI/INSA, France), George Roma ...

20 Competitive solutions for online financial problems

Ran El-Yaniv

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1

Full text available:  [pdf \(331.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article surveys results concerning online algorithms for solving problems related to the management of money and other assets. In particular, the survey focuses on search, replacement, and portfolio selection problems

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21 ['Why didn't somebody tell me?': climate, information asymmetry, and bad news about troubled projects](#)

Mark Keil, H. Jeff Smith, Suzanne Pawlowski, Leigh Jin

June 2004 **ACM SIGMIS Database**, Volume 35 Issue 2Full text available: [pdf \(360.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The reluctance to transmit bad news is a problem that is endemic to many organizations. When large projects go awry, it often takes weeks, months, and sometimes even years, before senior management becomes fully aware of what has happened. Accurate communication concerning a project and its status is therefore critical if organizations are to avoid costly and embarrassing debacles. This paper describes the results of an experiment designed to explore some key variables that may influence an indi ...

Keywords: information systems implementation, mum effect, software project management, whistle-blowing

22 [Technical reports](#)

SIGACT News Staff

January 1981 **ACM SIGACT News**, Volume 13 Issue 1Full text available: [pdf \(1.78 MB\)](#) Additional Information: [full citation](#)

23 [Validation, Verification, and Testing of Computer Software](#)

W. Richards Adrion, Martha A. Branstad, John C. Cherniavsky

June 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 2Full text available: [pdf \(3.00 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

24 [Designing more deeper: integrating task analysis, process simulation, & object definition](#)

Keith A. Butler, Chris Exposito, Dan Klawitter


August 1997 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available:  [pdf\(1.10 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: business oriented components, object modeling, process modeling, task modeling, user-centered design

25 [Timing and crosstalk driven area routing](#)

Hsiao-Ping Tseng, Louis Scheffer, Carl Sechen

May 1998 **Proceedings of the 35th annual conference on Design automation - Volume 00**Full text available:  [pdf\(232.90 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#) [Publisher Site](#)

We present a timing and crosstalk driven router for the chip assembly task that is applied between global and detailed routing. Our new approach aims to process the crosstalk and timing constraints by ordering nets and tuning wire spacing in a quantitative way. Our graph-based optimizer preroutes wires on the global routing grids incrementally in two stages - net order assignment and space relaxation. The timing delay of each critical path is calculated taking into account interconnect coupling ...

Keywords: fanout optimization, gate-sizing, logic synthesis


26 [Timing driven maze routing](#)

Sung-Woo Hur, Ashok Jagannathan, John Lillis

April 1999 **Proceedings of the 1999 international symposium on Physical design**Full text available:  [pdf\(810.37 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

27 [ITiCSE 2000 working group reports: Support for teaching formal methods](#)

Vicki L. Almstrum, C. Neville Dean, Don Goelman, Thomas B. Hilburn, Jan Smith

June 2001 **Working group reports from ITiCSE on Innovation and technology in computer science education**Full text available:  [pdf\(1.64 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This report describes a growth path for the area referred to as *formal methods* within the computing education community. We define the term formal methods and situate it within our field by highlighting its role in Computing Curricula 1991, Computing Curricula 2001, and the Software Engineering Body Of Knowledge (SWEBOK). The working group proposes an enhancement to an existing web resource, which is a rich collection of materials and links related to formal methods. The new resource is d ...

28 [ITiCSE 2000 working group reports: Support for teaching formal methods](#)

Vicki L. Almstrum, C. Neville Dean, Don Goelman, Thomas B. Hilburn, Jan Smith

June 2001 **ACM SIGCSE Bulletin**, Volume 33 Issue 2Full text available:  [pdf\(1.64 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This report describes a growth path for the area referred to as *formal methods* within the computing education community. We define the term formal methods and situate it within our field by highlighting its role in Computing Curricula 1991, Computing Curricula 2001, and the Software Engineering Body Of Knowledge (SWEBOK). The working group proposes an enhancement to an existing web resource, which is a rich collection of materials and links related to formal methods. The new resource is d ...

29 High-level synthesis for testability: a survey and perspective

Kenneth D. Wagner, Sujit Dey

June 1996 **Proceedings of the 33rd annual conference on Design automation**Full text available:  pdf(63.81 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**30** Register allocation for predicated code

Alexandre E. Eichenberger, Edward S. Davidson

December 1995 **Proceedings of the 28th annual international symposium on Microarchitecture**Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** hyperblocks, interference, predicated execution, register allocation, software pipelining**31** Towards understanding the predictability of stock markets from the perspective of computational complexity

James Aspnes, David F. Fischer, Michael J. Fischer, Ming-Yang Kao, Alok Kumar

January 2001 **Proceedings of the twelfth annual ACM-SIAM symposium on Discrete algorithms**Full text available:  pdf(767.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper initiates a study into the century-old issue of market predictability from the perspective of computational complexity. We develop a simple agent-based model for a stock market where the agents are traders equipped with simple trading strategies, and their trades together determine the stock prices. Computer simulations show that a basic case of this model is already capable of generating price graphs which are visually similar to the recent price movements of high tech stocks. In ...

32 Improving visualization: The challenge of information visualization evaluation

Catherine Plaisant

May 2004 **Proceedings of the working conference on Advanced visual interfaces**Full text available:  pdf(582.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As the field of information visualization matures, the tools and ideas described in our research publications are reaching users. The reports of usability studies and controlled experiments are helpful to understand the potential and limitations of our tools, but we need to consider other evaluation approaches that take into account the long exploratory nature of users tasks, the value of potential discoveries or the benefits of overall awareness. We need better metrics and benchmark repositories ...

Keywords: adoption, evaluation, return on investment, technology transfer, usability, usefulness, user studies, visualization**33** Industrial/government track: Data-driven validation, completion and construction of event relationship networks

Chang-Shing Perng, David Thoenen, Genady Grabarnik, Sheng Ma, Joseph Hellerstein

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**Full text available:  pdf(267.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


Event management is a focal point in building and maintaining high quality information infrastructures. We have witnessed the shift of the paradigm of event management in practice from root cause analysis (RCA) to action-oriented analysis (AOA). IBM has developed a pioneer event management methodology (EMD) based on the AOA paradigm and applied it to more than two hundred production sites with success. Foreseeably, more and more event management professionals will apply AOA in different incarnations ...

Keywords: ERN Construction, ERN Validation, action oriented-analysis, event management methodology, event relationship networks, proactive management, root cause analysis

34 Trajectory sampling for direct traffic observation

N. G. Duffield, Matthias Grossglauser

June 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 3

Full text available:  [pdf\(251.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Traffic measurement is a critical component for the control and engineering of communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets between any ingress and egress point of the domain. Most resource allocation and capacity planning tasks can benefit from such information. Also, traffic measurements should be obtained without a routing model and without knowledge of network ...

Keywords: Hash functions, Internet traffic measurement, packet sampling, traffic engineering

35 Human-Computer Interaction in the Control of Dynamic Systems

William B. Rouse

January 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 1

Full text available:  [pdf\(2.77 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modes of human-computer interaction in the control of dynamic systems are discussed, and the problem of allocating tasks between human and computer considered. Models of human performance in a variety of tasks associated with the control of dynamic systems are reviewed. These models are evaluated in the context of a design example involving human-computer interaction in aircraft operations. Other examples include power plants, chemical plants, and ships.

Keywords: aircraft, control, dynamic systems, human-computer interaction, mathematical models, system design, task analysis

36 Conversion technology: an assessment

James P. Fry


July 1981 , Volume 12,13 , 12 Issue 4,1 , 2

Full text available:  [pdf\(2.36 MB\)](#) Additional Information: [full citation](#), [references](#)

37 Abstracts and available technical reports

SIGACT News Staff

July 1983 **ACM SIGACT News**, Volume 15 Issue 3

Full text available:  [pdf\(1.59 MB\)](#) Additional Information: [full citation](#)

38 Survey articles: Data mining for hypertext: a tutorial survey

Soumen Chakrabarti

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available:  [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

With over 800 million pages covering most areas of human endeavor, the World-wide Web is a fertile ground for data mining research to make a difference to the effectiveness of information search. Today, Web surfers access the Web through two dominant interfaces: clicking on hyperlinks and searching via keyword queries. This process is often tentative and unsatisfactory. Better support is needed for expressing one's information need and dealing with a search result in more structured ways than av ...

39 Information systems curriculum recommendations for the 80s: undergraduate and graduate programs

Jay F. Nunamaker, J. Daniel Couger, Gordon B. Davis

November 1982 **Communications of the ACM**, Volume 25 Issue 11

Full text available:  [pdf\(2.20 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The recommendations of the 1972 and 1973 ACM Curriculum Committee on Information Systems programs have been influential in the development of degree programs at the bachelor's, master's, and doctoral levels. The earlier curriculum has been revised and updated based on advances in the field over the past nine years. The report discusses the continuing need for education related to the definition, analysis, design, construction, and management of information systems in organizations. The stru ...

40 Trajectory sampling for direct traffic observation

N. G. Duffield, M. Grossglauser

August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication**, Volume 30 Issue 4

Full text available:  [pdf\(421.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traffic measurement is a critical component for the control and engineering of communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets between any ingress and egress point of the domain. Most resource allocation and capacity planning tasks can benefit from such information. Also, traffic measurements should be obtained without a routing model and without knowledge of netwo ...

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- 1 [6,792,399](#) **T** [Combination forecasting using clusterization](#)
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- 15 [6,658,467](#) **T** [Provision of informational resources over an electronic network](#)
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52 6,477,665	T System, method, and article of manufacture for environment services patterns in a netcentric environment
53 6,477,580	T Self-described stream in a communication services patterns environment
54 6,473,084	T Prediction input
55 6,463,290	T Mobile-assisted network based techniques for improving accuracy of wireless location system
56 6,456,737	T Data processing system and method
57 6,448,012	T Method for mapping a nucleic acid
58 6,442,748	T System, method and article of manufacture for a persistent state and persistent object separator in a information services patterns environment
59 6,438,594	T Delivering service to a client via a locally addressable interface
60 6,434,628	T Common interface for handling exception interface name with additional prefix and suffix for handling exceptions in environment services patterns
61 6,434,568	T Information services patterns in a netcentric environment
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63 6,418,424	T Ergonomic man-machine interface incorporating adaptive pattern recognition based control system
64 6,408,263	T Management training simulation method and system
65 6,400,996	T Adaptive pattern recognition based control system and method
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70 [6,351,235](#) [T Method and system for synchronizing receiver systems of a wireless location system](#)

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78 [6,281,834](#) [T Calibration for wireless location system](#)

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81 [6,249,768](#) [T Strategic capability networks](#)

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PAT. NO.	Title
101 5,701,400	Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data
102 5,519,618	Airport surface safety logic
103 5,177,685	Automobile navigation system using real time spoken driving instructions

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